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#### CASE GT/W-21923/A/AC 533

### 0A0C 0 1711-2 1020/AA0 000

I heraby certify that this paper (elong with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Assistant Commissioner for Palants, Washington, D.C. 20231.

CERTIFICATE OF MAILING

Typo or print name

Signature

Date

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

ANNE FLISHER ET AL

APPLICATION NO: 09/890,129

FILED: JULY 27, 2001

FOR: POLYMERISATION PROCESS

Group Art Unit 1711
Examiner: S. Berman

RECEIVED
TO 1700

Assistant Commissioner for Patents Washington, D.C. 20231

### **DECLARATION UNDER RULE 1.131**

The purpose of this Declaration is to establish a date of invention in Great Britain at a date prior to October 6, 1999, which is the effective date of U.S. Patent No. 6,262,141 that was cited by the Examiner.

The persons making this Declaration are the inventors.

To establish a date of invention of this application, the following attached documents are submitted as evidence:

laboratory notebook records as follows:

- a) From notebook Number 76 of Anne Flisher pages 38 to 47, 50 to 54, 68 to 69, 73 to 75, 92 to 94, 111 to 113, 145, 148 to 150, 166, 181, 191.
- b) From notebook number 91 of Angela Holman working under the supervision of Anne Flisher pages 69 to 70, 96 to 97, 136 to 137, 154 to 155, 160 to 161.

3/96

c) From notebook number 97 of Anne Flisher pages 1, 15 to 16,19 to 21, 33 to 34, 38.

The dates on the above documents have been masked.

All the work recorded in the above notebook pages and recorded in the reports was carried out before 5 October 1999. The project was initially numbered 1542 Subsequently the number was changed to 2006 and the project given the code name "Bonsai".

From these documents, it can be seen that the Invention of this application was conceived and reduced to practice at least by the date of October 5, 1999, which is a date earlier than the effective date of the reference.

The features of the claims of record are found in the notebooks in accordance with the following Table;

Claim	Conception/reduction to practice.
	Book Reference: Book number/Page number
1	76/42
2	76/46
3	97/33
4	76/41
5	76/42
6	76/41
7	76/42
В	91/69
9	91/69
10	97/15
11	76/43
17	76/42 and 97/33
18	97/33
19	76/74 and 76/75

This Declaration is being submitted prior to final rejection.

As a person signing below:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signatures:		-4- 4	
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Q9/690,1 <b>2</b> 9		- 3	GT/W-21923/A/AC 533

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TO CIBA TARRYTOWN P. 06/39

ARCHIVE DETAILS:

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Project No. 1542

# Project "Iota" Reduction of Residual Acrylamide

In order to imestigate the possibility of reducing residual acrylamide as a number of mustage experiments were to be carried out. Ture rows materials & was the first possibility. Solid acrylamide was obtained (Mitabula for and was used in the make-up of monomer.

- Magnaflac 351 was chosen as the product due to its high acrylamide content (94% and its simplicity (of m3)3 which cartains vacuum which could be a source of ever)

- De-consed water was used in the make up of the monomer.

The following contained solid acm and DIW

Polu No	KBrOz	Na,SO2	AZON	ACUA
132-2915	3-5	7.0	3∞	100
2916	3.5	7.0	3∞	100
2917	5-0	10.0	300	. 100
2918	5.0	10-0	300	100

Another	set of	four per	momers	were	mode a	by
initiated w	oing the	same	levels.	These	monome	. ک.
contained	solid a	em ar	d tap	uzzte	r. They	were

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Robert

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Project No.

FPR Nos 132-2919 -> 2922.

- A third set of standard polymers were producted (FPR N° 132-2923 > 2926) these contained plant produced acrylamide and top water.

RESULTS

The paymerination data is as follows:

		<u>.</u>					÷						
FPRNº	KBrOz	Nazsa	76	T10_	120	Tzo	Tir	o. Eo	Tas	Tmo	- Roly - Time	Ind Time	× = 85 mins
D-2915	3.5	7	-)	0	, a	<u></u> 5	9	25	75 *	32	110	4 min	PURE
2916	3•5	7	-1	Ø1	3.	<u></u> 5	8	22	66	54	ַ סַוֵּוֹ	30 sec	>Acm.
<u> 2</u> 911	5.0	10	<u>-)</u>	4	7	13	25	31	<b>85</b> *	85	<b>3</b> 5	50sec	Diw
2918	5.0	İo	<b>-</b> l	1	.6	\4	28	<b>ક</b> ાં	క్రవ్	82	<b>\$5</b>	403ec	ر ا
2719	_3.5	7	-1		2	5	8	20	51	84	. 116,	30 50€	Puré
2920_	3.5	. 7	1	<u>!</u>	<u>.</u> 4	. ,5 ,	8	19	<u>4.</u> 6	<b>3</b> 4	gii	26 sec	SAcm
2921	5.0	. 10	0	a.	.5	10	. 16	57	្ឌ 5	<i>2</i> 5	80	.30 <i>s</i> ec	THE
<b>2</b> 132 .	<i>5</i> a	10	٥	2.	. E	AILET	D. TO	o Pok	IME RI	5E. Bu	obleri out	e Jowes.	) H20
2923	3.5	7	<u>-</u> i	1	.3	ر نے	9	ゔゔ	_5 <u>.</u> l .	84	ilo	<b>20 ≈</b> c	) PLANT
29 24.	3.5	, <b>7</b>	٥.	2	4	. 6	8	16	34	83	150	70 sec	Acm
2925	5.0	10	-[	2	6	13	22	61	<i></i>	८३	80	10 500	~ ~ :::::::::::::::::::::::::::::::::::
292 <u>6</u>	50	10	0_		٩	`\ <b>S</b>	31	78	<u>8</u> 1	81	ðo	10300	_ H2O
	· ·	•									1		

The resulting paymers were assessed for solubility and viscosity 32 and residual acrylanude -

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almen.

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					<b>y</b>
	FRNO	Viscosity@30	Solubility	Res acm Zo	
	132-2915	21.	Cood .	0.08\$	
	2916	21	.Cood.	o- ୦ <u></u> ୨	VISC SPEC
· }		18		0.055	17-23-29
	2918	18	Good	0.089	
. :	2919	21	Ciccod	0.708 98	su na ma seen n ee e
	2920	<b>2</b> ,	C.cod	0.05	
}	7921	<u></u>	Cood	ଠ <sup>.</sup> ପଞ୍ଜ ,	e,
اً	29.22	Did not polymerese			
j	2923	24	- Fair	Q-09.1	
! 	, <u>2</u> 924	23	Fair	0.093	
i		21	Four	6.090	
_ [	2926	19	Fair	0.096	

The above results suggest that the use of the pure acrylanide did not lead to a reduction in residual acrylanide. Those results show no change in viscosity when Desouved water was substituted for top water.

The next stage was to polymerise in the presence of very high thermal initiators. AZDN and ACVA were to be earlied in 1000ppm quantities. The thermals were to be dissolved in methand, a well known charm transfer agent. To Only one pointment was initiated to make sure it polymerised. The levels chosen were as follows:-

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monomer. Hopefully the peak temperature of each polymer remaining thermal stated activate during drying process. The following monomers usere prepared

Poly No.	_KBroz	Na, Soz	AZDN	Acua	علماه ٪	<u></u>
132-2931	3.5	7	300	. 100	30	
132-2532	3.5	7	400		20	
132-2933	3-5		<del>-</del>	4-00	20	ļ. <i>.</i>
132-2934	3-5	7	300	100	20	
i			· · · · · · · · · · · · · · · · · · ·			1

tolys 132-2932-> 2934 peaked at approx 45 after 4 hours. They were left overnight in the fume cuploon These polys were not used further. (132-2931 was on) residual Ultra violet drying is a possibility for the reduction of Acm. A testine preliminary experiment was set up to find out the effects of uvlight treatment

- Wet get was lubricated using 0.190 Rionic solution (ioo a)-and
- BEE (Benzoyl Ethylother) was added (Int /aml) of a 10% in methano
- loog was died traditionally in a FBD.

   roog was died in a FBD with uv light shining through a glass head.

The residual monamer had already been assessed on the F.B.D. dried gel

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#### Project No.

-	Poly Nº	Visc	Res Acm	dillynet	
Į,	32-29254 A	23	0-093	dom	=> UV treated   dred
- 1	37-2924 6	73		2 ml	3nd -11-
23	32-2925 A	21.	0.090	I Ine a	2 UV treated I dried
13	52-2915 B	21	0°0°0	Int	nd

= 132-2924 Band 132-2925B were un treated dried

The glass head with UV light equipment dried the uxth get in approx 30 mins, the traditional method took larger (60 mins-). The above will be assessed for regidual acm.

Poly N	10	Res.	Acm %	Viscosity	Viscosity 2	Stubility	
						, ,	:
32-2	124 G- A	0.09	<b>a</b>	<del>-</del>	-	FIG	skd
20	BUB.	٥٠ ٥5	2	18	19	F/4	+W
25	75 A	0009	a	18.	17	F/G	جلا
201	20 J	0.4.0.3	a l	14.	14	F/G	+41
29	31A	0.023	_	23	2.3	F.	:
243	ol B	0.018	المنته المنته المناهدة	ຊລ	23	. F.	<u>.</u>
29	31C	0 0 66	. micheusie	T-T-L	T-T-L	[ F	
29	J.D.	0.048	wined no	19	20	<u> </u>	<u> </u>

TIT-L Torque too low.

In each case the UV treatment larging prod proved effective.

reducing residual monomer by up to 2/3. Mean washing were

very useful in reducing res acm but is not a feasible option for

use on the plant. Murawae + au drying was also effective.

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# Methanol washing drying:

- standard M351 product was manufactured .... (FPR Nº 132-2931)
- Wet get was worked up and minced as would.
   This get was then treaded with requery method

It was hoped that this treatment would entract any unreacted acrylamide. The use of aqueous methoral is important as the presente of water swells the gel exposing more unreacted movement to the aiddl for extraction.

- H=50% ag meoH solution was used in the first. instance and increasing Mech, concentrations thereafter until pure mean (100%) was used. - This lead to a white chip being produced. The treated the was not completly dry and so was placed un the over overnight @ 50°C.
- A second attempt at methand drying was made using a 70% o sol" to such the get. This mixture was mixed using a hand blender and left for it 5 mins 95% was then used followed by 100%
- This was also dried overnight in the over. The The two products were viscosity tested and tested for Esidual acrycamide. Although this moon washing is not viable on the Flant due to the volume of Methanol used, it is still valuable to check it residual manamer is reduced.

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### Project No.

a comparison this product (132-2931) was dried dried for 10 mins @ 400 ubits and 45 mins @ 150 Watts 100g of polymer was dried in each unstance. The results for these drying treatments are shown ion page 44

Four more polymers were produced using works produced acrylamide. The monomers were made up using the standard M361 recipe but contained 25% solids (of 30% standard). This was in order to lover the peak temp of the polys and allow the thermal unitators to actuate white the during over residence! dying-The following polymers were produced

				,——,	_	
Polu Nº	KBr03	Nassaz	AZDN	ACVA	.)	
132 - 2935	3.5	7	3∞	100	. (	
2936	3.5	7	4 <del>00</del> .		· }	25%
2937	3.5	7		400		
2938-	3.5	7	100 .	300		

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Pdy N°	To	7,0	T <sub>2</sub> 6	140	150	.160	Tao	T120	T140	TPoly	Tind
132-2955	-1	0.5	ス	7	. n .		<u> 3</u> 3	54. <i>5</i>		150min	
152-2936	<b>- t</b>	0	ı	6	9		31	54	- 61		40 ====
132-2957	0	1	2	6	٩	. 16-5	31	: 55	· 62	-11-	6
- ;	Ö	2	4	8	12	17	: : 34	: 58		-11-	30 sec
132-2938	<del>O</del>	4	4	D	'd	17	: 34	; 00	; <u>C++</u> )		~ 365

The rate's for these products was very slow but the descred low peak temperatures were achieved. It is hoped that drying (microwave, uv, standard) will activate residual thermals.

The above were all dried on FBD as a standard. Microward both with and without V50. The solution used 6 V50 was 3.5/16.5 w/w (V50 : H20). Results:-

	<b>*</b>	·		j
PolyNo	Res Acmillo	Visc.1	Visc 2	Solubily Treatment
132-2935		274	25	FIP None
132-2935A	bappm	T-T-L	T-T-6	FIG Micro + Vodison =====
1332939	Q:11°6.	- 19	80	F/a Microwowed
1355-2936	20.4°/c	23	23	F19 None
12-7936A	-57ppm	T-T-L	TTL	FP Micro - V50(154) H
nz-583.68	586pm	. 17	17	FIP Microuned
132-2937		a <sub>4</sub>	2.24	F/G None
132-2957 A	59.ppm	T-T-L	T-T-L	FIP Mucro + V5di-sm) X
132- 2937B	555 ppm	. 17	17	F Microwaved.
132-288.	70.4%	23	a3	F/a None
153-298A	134 ppm	<u></u>	ブ-T-L	F Mucro + Vodestill
	643ppm	16	16	F Microwaved

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#### Project No. 1542

Reduction of Residual Monomer

different ways. The polymerisation data is shown below

Poly No. KBroz N	asa To	T10. T20	T40. T60	. T80 .	tay.	1 nd
Poly No. KBroz N	7 _0.5	3 . 6	18 _ 5 <u>8</u>	. इड .	90	10 sec
			17 . 49			
152-2941 3-5	70.5	1.5 , 4	15 45	୍ଟ୍ର	90	10Sec
132-2942 3-5	7 6	3 6	17 52	<u>85</u>	90	losec_

To verify that it was the VSO and not the low solids which lead to the earlier results (see page 47), standards were to be dried using VSO as a spray on solution.

### 1 Fluid bed dried - no 150

FPR Nº	Res Acm	Visc(ce)	ડિલ
132-2939	754ppm	22	FIG
	876ppm	22	FIG
2941	830ppm	24	F/G
. 2945	957pm	23	F/4

2) Fluid bed dried + V50 (1.5 ml of a 3.5 g in 16.5 g H20)

FPRN° Rea Acm Visc (cP) Sal

132-2939 - A 362ppm 19 F/G I ml V50 2019

132-2940 - A 328ppm 20 F/G I ml V50 2019

132-2941 - A 333ppm 19 F/G I ml V50 2019

132-2942 - A 382 ppm 20 F/G I ml V50 2019

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project No. 1542

3) Fluid bed dried (glass head) + uv light and containing v50.

<u> </u>	0 ^	1 1/ / 2		<b>)</b>
EPRNU	Res Dens	V13c (cp)	<u>SSC</u>	
132-2939-6	213ppm.	. 19	FIG	imil 150 soln
, 132 - 2940-B	123ppm	. 17	F/G	1.5ml 150 san
132 - 2941 -8	178pm	: 20	F/L	I'me V50 soin
132-2942-8	101000	19	F/G	1.5ml 3/50 sol7
<b></b>	7			

132-294-B-1 116ppm \*

A) Microurue drying with the standard samples (132-2939>2962)

FPR N°	Res Acm	VISC	ડ્ટ	
132-2939-C	90.ppm	T-T-L	F/G.	ITAL V50 sol?
132 -2940-0	55 <sub>ppm</sub>	T-T-L	F/4	1.5ml 450 sol"
132-7941-C	: Mippin .	T-T-L	F/G.	Ind uso sol
132-29k2-C	: 115pm	T-T-L	F/G	1.5 ml V50 sol
			_	

It appears that 150 in conjunction with nucrowaving is the best option for reducing residual = at the manent. Work must be done to improve visc.

... Visc Service 17-23-37

It was decided to investigate the possibility of reducing residual acrylamide on cationic powder products as well as animal arcs. I Tetag 92 was prepared and initiated The polymers were produced.

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Project No. 1542

KESULTS.

 FPRNO	KBroz	Naso	To Tro	T40	To	T <sub>80</sub>	T120	Enax	# ad	Ţ-·
 132-2942	3	6	4.5	8	14	23	73	83	Trus	<u>-</u>
 132-243	3	6	-1 2.0	5	9	16	46	82		†· -
 132-20134	3	6	0 3 6	7	3	22	74	84	Emino	; :
 132-2945	3	6	0 30	Ь	11	27	38	<i>3</i> 7,	bours	

Visc spec 130-170-210 @ 30.s<sup>-1</sup>

O Flund bed dried no 150

FPR N°	Res Acylamid	e Viscosity (CP)	Sel.	
132-2942	198	218 216	F	
-132-2943	911	215 209	F	
132 - 2944	913	215 210	F	'
132 - 2915	975	214 212	F/P	

2) Mucrouaue + 150,1(35:16:5g => ~3000ppm solion 100g wet get)

 FAR No	Ros Acrylamuck	Viscosity (cf)		
132-242 A	60	T-T-L	F	Joon gon
137 - 2943 A	75	ナーナー	F	3000 "
 132 - 2944 A	89	T-T-L	F	3
 132-2945A	75	T-T-L	F/P	3.00

wood M351. Therefore sectioning

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above

It was deaded to drop the levels of v50 to 125 ppm, to this

+ would allow a comparison with the higher latto. Also as

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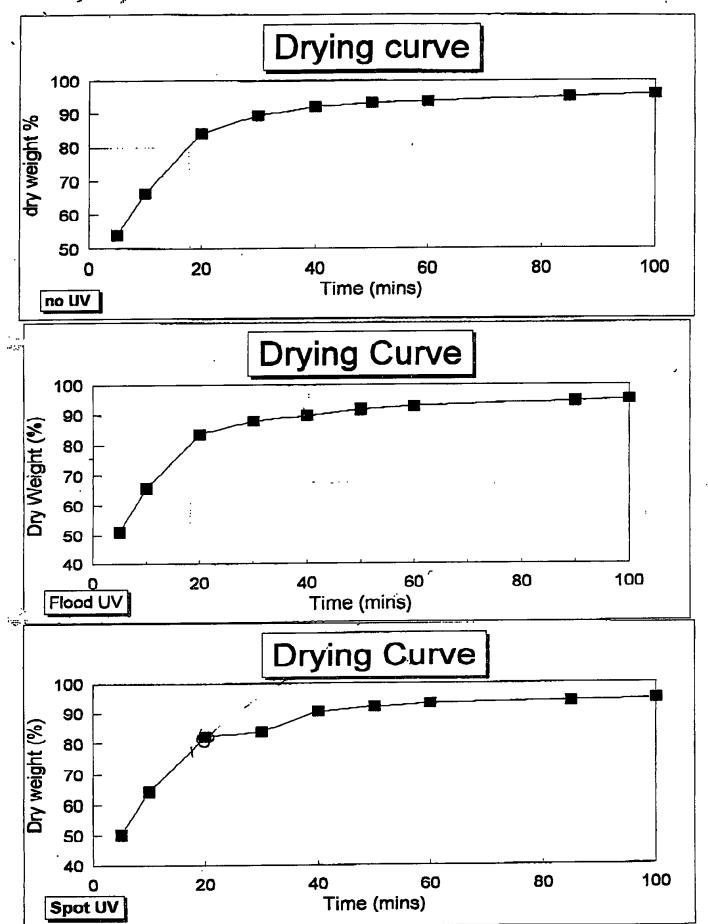
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V50 us expensive the lawer the flevel the better im-

In spec viscosity material has been produced - VIa the microuse drying route. The wet get was dried for less time than an on previous accasions: (~30 mins 10 mins @150 mins) and was allowed to stand. "Cooking "continued and was allowed to stand. "Cooking "continued as and the get dried without further microwaving. The solubility of the powder may have been affected slightly by the microwave process but the solubility was to be possible to reduce the microwave after only. It may be possible to reduce the microwave after is mino @ 450 W. o.o. Roducing the time spent drying @450 W or wring only 150 W may be better for controlling. Viscosity and solubility.

Again results show that high levels of V50 and microusure trasment has reduced the residual monomer level to < 100ppm. The lovels level of V50 (250ppm) was effective in that residual monamer was reduced from 8-90cppm - 3-400ppm.

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	<u> </u>				···	T		<del></del> .
FPR No.	Visc 1	Vise 2	Solubility	Residual	Maramer	de to the house temperature.		
29 2937A	TL	TL	F/9	32	1 De 4			
2937B		11	F/q	57		20° 0000 20° 0000 00000000	materials incomes and state a se	
2937 C	BIL	MITC	F/4	57	9994 ( 44 450 p 2 )	ne communication to at	W10199 MARRON I ROM	
1937 D		!4	F/G	14.4		ne I occompagnessimmeleparameters I		
1937E	. 13	TL	F/4	98		##P1489####################################	arr a commonwhile delicited of	
2938A			4 Billion Bellimpisch imm Holes is 4 to 1	6000 a anas i minatoni ini b	, , , , ,		# 10 MARE   1 MARE MATERIAGE   No. 1	
2938 B	T I IN THE HOUSE HE I I I IN THE HE I	to the edge Maje & Manager «	III AW MIRMI III III I	. 110 1 2 11 111 111		*** ***********************************		·
2938 <u>c</u>	. 4-140-1 10-140-1 10-140-1 10-140-1 10-140-1 10-140-1 10-140-1 10-140-1 10-140-1 10-140-1	• • • • • • • • • • • • • • • • • • • •	e lightfoligheach air air maint (b.) Par [ ]			1 Maria 1000 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a	- HENCENO SIGNI DI ( •	,. ••
2438D	1 40 1000 1000 4 7 47	-01 10 10 10 10 10 10 10 10 10 10 10 10 1					1996(C) (1998)   1996   180   11   180	
2439A	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Secretary Section 1997	Maradi Maria (Maria 14 )	M I MI 00 IN			· erabisciation (de Bitt (s	
29.39.8			· He Kefarusanians at	ana eo s enestro - 1 F			defriers production dermaners 1 12	
2439C		1 (44) (41) (41) (41) (41) (41)	. 44+ 441 + 641404144111111111111111111111111111111				10 ( 40 00 1910) 2 1000	
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ESPE								
			- water - 1974	· · · · · · · · · · · · · · · · · · ·				
2940B					\			e
2940€						# 01 10 1000000000000000000000000000000		
29400					/	. 49-40-4-4- (1880-8-10-10-10-10-1-1-1-4-00-	JAMA AL BIOGRAMMANTO / DID LOTTE ME	
2940E	·. /			· ·				

¥129 - 2940 B	500ppm V50	Serou	Microugaise	10mans @ 45	sow uv sta
129 - 2900 @	300ppm VS	zbran			
129 - 2940 C	Scoppin VS	Spray			- UV small.
129 - 29460	500 ppm V50.	spray			no uv std
	500ppm V50	-	<del></del>		to un small
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į	TO CIBA ARCH	TARRYTOL		F	.24/39 
ļ	CONTROL No.	ROLL	START	END	IND?
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Project No. ドバコ

facultate the reduction of residual monamer to \$ < 100ppm larels an experiment was planted which would allow the comparison of a number of variables. These were:

Levels of initiator USO, NADGET

Fluid bed drying incognistion with UV treatment.

Microwaving followed by FBD with UV treatment.

Microwaving followed by FBD with UV treatment.

V50/VAOur levels.	FBD.	FBDIUV	Mucro 21/2 450W>FBD	Thicro mus 450m W
0	, <b>A</b> .	瑋	٦	<b>D</b>
. 500		_ <b>_</b>	, G	મ¦
1000	. <u> </u>	. 3	k	<del>2</del>
2∞	M .	N	0	<u> </u>
. 3000	<u> </u>	<del>.</del>	۔ ہے۔۔اِک ایک ہے۔	

Froduction plant polymer (m333) was obtained to ensure a constant source of product. "F" above for example has 500ppm sprayed onto the surface and dried in a fluid bed drier (glass head) under Ultra violet light. "T" was sprayed with 3000ppm voolypour - microwaved for 3's minutes @ 450 then FBB in a glass head under ultra violet light

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TO CIBA TARRYTOWN P.25/39

ARCHIVE DETAILS

CONTROL No. ROLL START END

-- niont No. 1542

		<u> 150</u>	js er 160-000 - 11.11	141		
	KESULTS.	. Visc 1	Visc 2	Sol	Res Acm	FPR No
	A	25	23	C	481	132-2999
	B 2	29	27	<u> </u>	.427	
	<u>C</u> =	29	28	F/a.	498	
	D 4	28	27	F/a	3.85	
, , , , , , , , , , , , , , , , , , , ,	Es	29	26	G	297	3003
i ••• * ****	Fe	26	24	G	189	3004
	_G <sup>7</sup>	20	19	G.	340	3005
	H 8	. 19	19	Fla	152	3006
, e - 1 mar 14	I	22	. 22	<u> </u>	306	3007
, .e.,		23	23	FEGG	263	200Z
	K		, i5.	集品	268	3009
ar de la company	<u></u>	18	1 1.7	<u> </u>	114	3010
and the second	M 15	24 24	22 23	G	162	3011
	<u>N</u> '•	23 23	22 21	G	142	3012
,,,,,,,,,	0	17 161	16 15			
ـ ـ الر	P 14.	16 15	15 14	<u>G</u>	79	3c,4
٠	Q 1,	27	24	Cr	156	301S
<u></u>	R 14	23	23	<u> </u>	128	3016
	S 1		15	G G	123	3017
4	T	14	13		163*	3018
rii Harii Saadii (19 <b>4</b> ), j	Approx due to	nterfere	nces on the cl	monator	om	
		•	Soci	ייט סכי אי		1 1) 11 11 11 11 11

Spec 25-33-40

19/3198 The following were retexted for viscosity to check if viscosity fell over time as
in sulphite treatment these results are shown alongside the crigural
results but are highlighted

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TO CIBA TARRYTOWN

**ARCHIVE DETAILS** ROLL START END IND? CONTROL No.

P.26/39

project No. 1547

	V4044	_	٠,		/ 11860 · . )
Kenulta	Visci	Visca.	S&L	Res Acun (ppm)	FPR No
AI	25	23	a .	481	132-2999
81	29	27		. 427	<u> </u>
_C1	29	78	Fla	498	3 <del>00</del> 1
Di		27	F/4	385	3002
E.L	27	25	a	490	. 3019.
- I	23	23	F/G.	212	3020
	18	17	G	331	Z02\
HL	<b>15</b>	15	G	94	3022
II	25	<del>2.</del> 11	G	<b>35</b> 6	3673
·	22.	23	<u> </u>	161	30e4
KI	14		FIG	2ግነ	3525
<u> </u>		1.8	F/a		3 <u>0.6.</u>
	26 24	24 -+	9	376	302 <u>7</u>
NI	23 2	23_	<u> </u>	I SS	3028
01	14 13	14	J G	ioe	3025
ρι	TTL TIL	14 - x	FIC	43	- ESOC
QI	24	25	G	2110	3031
RI	22	22	G		3032
51	13	TL	<u> </u>	112	3033
<u> </u>	13	П	I Fla	43	3034

					Spec .25	
× ∧st	evough:	scrmple remo	uned to	stest in	duplicate	
		» al Alakina (8188) ( 1874 )		COURT COMPAN AND AND AND AND AND AND AND AND AND A	. The site minimization MOS (MATE) to 1 4	
					10014 01 114 1 MARKET PL 7	

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<sub>Project</sub> No.										
	m 1 Hc1		 				#	×- · · ·		

		,	,	,			
FPR No.	Viscosity	Solubility.	Residua	1 Acm			
137-3055	ر سرورات		499	7		** MEN'S STATE S S PROPERTION	
3.656		-	<i>-,</i>		J. Fatest		
3~57	35 34						w
	~ <del></del>			. , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	,	
<b></b>				· · · ·	mparagen 1 / 10 oles 6 (		
			L L			٠	
The above	to.wcp	elys. wes	و کردمد	@ ~v 0	C. MUMOR	c of way	ß
s. follows	Ç. ~		*** *** *** *** ** **		••••		
132-305		1			,		
<u> </u>	A ( M	housed	ro Vac	) <del>८। ८।</del>	r mannen entide al brefe fibre b Mar		
3057	Α	3/2 minut	c <sub>o</sub>		,		
3,068	Ł .	,		•			
132-3	<u>යන් අ )</u>	4 41 894   5400 1 14		Bar in e		· #14###### * *	
.30	2563 25	500ppna	VAOCHL+	muciou	aved 3'2	minutes.	
	57.B			. 1 200		, ,10 ma	
,	58 B				(res <b>e</b> res · · · · · · · · · · · · · · · · · · ·		• · · · ·
			, , , , , , , , , , , , , , , , , , , ,				<b></b>
			40 EE A 1 000230 13023000 614 7 M				
			 Van <del></del>		II ———		
	- (	50 Oppor	٠		5000 F & 10 ft 1 6000 PPPP		•
	6#C			•			**
30	268 C)	. Sign the annual count at court & Dr. Y.	N. (F. 1886 1A) .				
,,		**************************************					
132- 30	<u> </u>		- A				
30	056 D \_	2500 ppm_	<u> 750</u> + 9	áy <u>d</u> rie	d.)		•
3s	\$ID \						• ••••
30	58 D					- · · · · · · · · · · · · · · · · · · ·	
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	OPPA	rer		, ,			

TO CIBA TARRYTOWN

P.29/39

ARCHIVE DETAILS
CONTROL No. ROLL START

ROLL START END

Project No.

The results were as follows:

	·	·	T		
	FPRNO	V.3c	Solubility	Res Acm	
	132-3005A		F	479	
	3056A	34. 37	F/a	443	
,	<u>3</u> 057A	36 29	F/G	4.96	
	3058A	79_28	G	428	
	3055.6	19 18	FIG	132	-
(	305B	18 18	F/G	89	
	3057B	19 18	F/G	169	
	3058B	18 18	G	152	
	365c	16 15	G	153	
	3 <del>6</del> 66	16 15	G	154	
e, ' zan anan	3 <del>00</del> 7C	17 16	G	166	
,•,	<u></u>	16 16	G	226	
,	30ED	20 lq	FG	99	
. •	30560	.26 <u>23</u>	<u> </u>	338	
··	30577	27 23	G	196	
	30587	24 23	G Ì	102	
,	-				Arm a 2

The above results show that the treatment of @ 2505 the par 50 solubility get has again wedneed the viscosity but not within specification. The uv light treatment has reduced viscosity (-250ppm V50) but not to the same extent as in microwave treatment. The application of foil to the glass drying head hopefully will allow more in light to reach and reach on the surface of the get chip Benzil dimpethyl ketal (uv interior) will be tried.

I declare that this work was done by me

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QPONEY.

P.30/39 CIBA TARRYTOWN ARCHIVE DETAILS project No. 1542. Reduction of Residual Acrylamide A set of experiments were designed which would allow the comparison of particle size, us light intensity and V50 treatment stog of production. MEIO was dried in each instance. on a FBD in the glass drying head. The following experiments were to be carried out. Intensity. Thermal V50 FPR. NO. .. Particle Size Low Small 142-087 142-093 HIGH 142-090  $5\infty$ . 142-094 500 142-091 1000 142-097 142-100 142-102 500 142-103 .500 142-105 5000 .....1.42 - 106 142-096 1000 142-049 Large 142-080 Small 500 Large ı 1000

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10-JUN-2003 16:30 FROM CIBA SC WT LTD	ANGILIA DE IAILO
Project No.	
High entensity light wo	s achered using two spec
UV bulbs with low intensity	y one bulb
5 mall particle size	
harge particle size >1	+m.m
	, in a second contract of the
Wet get chip was Lubri	cated and sieved to achieve to
	o was added to the gel chep as it
was blended.	TORRING TORRIS STATE TO THE STATE OF THE STA
	**************************************
Dryng temperature 85° Blower speed 7.5	<u> </u>
Blower speed 7.5	
Samples of the drying !	get were removed from the
bulk sample on the following	<u> times</u>
<u></u>	
· 0	
20 D	
30 E	
- 40 F	
·50_G	
60 н	
Company with the control of the cont	
Dry weight and residual	acrylanido use measured
Residual acrylamide was con	rected to 100% dry weight.
· · · · · · · · · · · · · · · · · · ·	
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TO CIBA TARRYTOWN

P.32/39

ARCHIVE DETAILS
CONTROL No. ROLL START END IND?

Project No. 1542

RESULTS	
FPR No. A B C D E	F G H
***	1300 1396 1279
080 1130 1147 1304 1252 1300	1338 1094 1087 1371
083 374 3145 3377 3/03 3179	s 29G8 3135 3128
084 1667 2496 7708 2604 267	8 3482 <u>2596 7465</u>
055 3257 3198 345 3140 270	11 3034 2817 2751
086 3203 3014 7978 2260 30	9, 2932 2685 3092
087 200 3578 663 2758 2634 20	SE 1724 1484 1376
<u>090 1269 1777 122) 1253 1273 (5</u>	CU 819 727 663
091 1254 1259 1350 1408 1276 12	20 1058 1051912
093 447 1431 1425 1230 092 64	
094 1113 1031 928 964 551 41	
	3 Sro 417 437
<b>,</b>	420 447 443
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·	779 73
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P.03/24

ARCHIVE DETAILS							
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ir iz		1 .	(Quanticus	ः ः	inticus.	-i! Uquid			الخدا-لادا	<u> </u>
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<u> 2-2.6</u> 4	. *	\		;	A	<u> </u>			- 11000 C	<u> </u>
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2-184. 🗵	<u> </u>		. <b>x</b>		<u> </u>	<u> </u>		. <b>V</b>	Anny.	
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<u>- 41 6</u>		1 <u>v′</u>			×."	<u></u>	<u>.                                    </u>		ري. ريي. دي. ريي.	<b>メ</b> . ベ
<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·			<i>&gt;</i>	<u> </u>	<u>  x</u>	<u> </u>	<del>``````````</del>	<u>.√.</u>
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	ಹರ್ಷವರ್ಷ	i treatm	cect. Hen	أ. آ. لان مدر	5D(\$C1).		a Div.	11/4/2) ( <u>e.</u> 1	100,1 <u>10e</u>	#=
outto to		ecoler.	oia lat	<u>. E.T.</u> . C	tote,	1 H HH #HHPPMINI				ئە. بەر <sup>ت</sup>
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TO CIBA TARRYTOWN P.34/39
ARCHIVE DETAILS

CONTROL NO. ROLL START END IND

Project No. 2006

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the residts are shown in the toble below.

*			,	,	ा <b>ल</b> क्कार्	Category	r ِ
Fi	E Number	Visita	Colerbility	. Rasich	ial Acin	Dry lieight	
	142-0173	2005 Special 29   25 : 33	F/G	( <u>누</u> 코니)	534	, <u></u>	
	174	TL 9		70	76	92.0	ļ
	175	TL io	<u> </u>	35	98	87.5	
	<i>≧O</i> 1	TL : 12	F	: ! _ 1.)	108		
		TI- 4	F	! :50 .	1.69	. <u>js</u>	<u></u>
		24/25 33	: F/G	. 525	558		
			F/G.	32 <sup>95</sup> )	, <u>ion</u> .	7 · 7 · 4 <u>-</u> ·	<u>.</u>
	<u> </u>	. 26 <u></u>		, alè	6.74		
	208	<u> </u>	.j F/G.	4.11	473	್ಷಾನ್ ವೆ	
	272	15 19	F	267	232	e e e e e e e e e e e e e e e e e e e	
i	2:25	TTL 16	<u>.</u>	: 115	: L3.÷p	14	
	709	25/15 32	<u> </u>	574	64.8	1.38.5	
·	7:0	25123 26	F/G		2354	\$150 J	
	711	21.124 31	! rlie	ļ.51	5(-7		
	<u>1</u> :2.	75/25 34	: G	\$ 14.	652		
; i	215	1 27 27	<u></u>	<u></u>	<u> </u>	355	j <u>-</u>

As someof the above conditions Til non standard test methods were used to get a number for the visitionity.

In order to explant the conditions simple statistics were used.

The graph shows were of is any example of the said intimus

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10-JUN-2003 16:31 FROM CIBA SC WT LTD Page No. 149	TO CIBA ARCH CONTROL No.	HIVE DETAILS ROLL START	
Project No.			
High VOCIEVE!		,	
*	- A Acers	of hope with	·
1950 100 100 le	i Difference	<u> </u>	
	- Aleman	file ve	2
Residual Across			
A in the second of the second		TOPOGLES!	and and
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			,
The method will allow up to exte	يبيانن يالزماجرد	cia Paris	10 foctor
, are howing the grootrod affection	both road	والمراج والمراجع والمستعملين	Konvere
with wecesty. A seemed feeters t	بعقال عماسيمها	gred and	<u>condetro</u>
sptimised further			10 4 0 1
The word of the smaller was rete	oted at the	higher	shear rate
of 500 5' so that a number could be	wed in th	e Statistic	al avaluper
, a delimant was not take to the			
The analysis was carried out Quantiture B. Quantiture A. Liquid	for all the	jarjables (	VSO, <u>UACHA,</u>
Quanticure B. Ovanticure A. Liquel	Azes, UV, mico	owave) a	nd also
the blocking effects. This taxets	aralysiski	ghights -li	re 6180 621
factors affecting both viscosity and	residual acr	ylamide.	The result
are shown overleaf	u .uuu		
. 188 - 198	u		dal se e comunicacione esperante del comunicación del com
. (a) pagama amangga aka 1861 (a)			
AND THE RESERVE AND THE RESERV			e (gj. page sk. r. ) i e reconstruir adreidilitatels e
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11-JUN-2003 12:27 FROM CIBA SC WT LID Fage No. 97	ARCHIVE DE IAILS
*	CONTROL No. ROLL START END IND?
Project No. 2006 Bonsai.	21/22/20 1/20 200/00 100/01
we made up the monomer EAC	Jamong en leupe become
(recence m2069)	t jali-manastadininininga a selatanggarapa ( tingga a jali-mana a selatanggarapa
% @ 100%	wt taken
Acrylamide 72.614	9019.67369
Adipic Acid 5	<u>311 is6019</u>
M· β·S 22·368	1960.5458g
Tetration B 300 ppm	18.39
	6990.32469
Water	7.329
<u>A2DN</u> 400 ppm	tal = 18300 q
10	ca = 10300g.
$\rho H = 3.5$	
Soids = 34%	The second section of the second section is the second section of the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the section is the second section in the section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second sec
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	3 <i>33 2334 2335 2</i> 336 _
KBrO301352 45 45	45 45 45 45
Na <sub>2</sub> SO <sub>2</sub> 0.27½ 9 9	9 9 9
Marine Standard 500 2	m Standard 500 2000
Au the gels had 30 minutes	dmas shis residence and
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were worked up immerciat	.99.,
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alover	date

TO CIBA TARRYTOWN P.07/24 AUCLIAE DE IWIPO ROLL START **END** IND? CONTROL No.

## Project No. 2006 Bonsai

<u>200 (0.100)</u>
POLYN° INCT TO
130-2331 60 secs +1 4 6 -> 15 23 30 48 66 78 80 80
$130-2332$ $18 \text{ muns } -1$ $1$ $2 \longrightarrow 7$ $12$ $16$ $25$ $30$ $40$ $61$ $72$ $79$ $79$
$130-2333$ $70.5005$ $0$ $2$ $5 \longrightarrow 15$ $23$ $31$ $50$ $67$ $85$ $85$
130-2334 60 secs -1 1/2 3/2 6/2 11 16/2 22 -> 64 76 76 = -
$120-2335$ 3mins 20 -1 0 3 6 11 17 22 $\longrightarrow$ 74 83 82
130-2336 40 spcs 0 2 5 8 13 19 25 -> 68 76 76
we dried the polymens as standard and also with uv.
Results Expl Viscosity Exp 2 viscosity Solubility 7 Rest
130-2331 A 0 200 204 F/G Octod 721
130-2332A = 207 201 G (Std. 967 82
$\frac{130-2333A}{190}$ $\frac{191}{190}$ $\frac{951}{191}$
130-2334A 224 216 F/G JUV ught 11361
130-2335A 198 199 F/G 952
120-2326 A 212 209 Ct J 97
13) - 1300 h 212
13) - 1300 h 212
130 150 n 212
Results Expl Viscosity Exp. 2 Viscosity Solubility and with
Results Expl Viscosity Exp. 2 Viscosity Solubility and with
Results Expl Viscosity Exp. 2 Viscosity Solubility aried with 130-2332 A With 130-2333 A With 130-23334 A With
Results Expl Viscosity Exp. 2 Viscosity Solubility aried with 130-2332 A With 130-2333 A With 130-23334 A With
Results Expl Viscosity Exp. 2 Viscosity Solubility aried with 130-2332 A with 130-2334 A with 130-2334 A with
Results Expl Viscosity Exp. 2 Viscosity Solubility  130-2331 A  130-2332 A  130-2334 A  130-2334 A  130-2336 A  130-2331 B  189 F/G
Results Expl Viscosity Exp. 2 Viscosity Solubility  130-2331 A  130-2332 A  130-2334 A  130-2335 A  130-2336 A  130-2331 B  188  189  F/G  130-2332 B  188  181  F/G  dried 95 51
Results Expl Discosity Exp 2 Viscosity Solubility  130-2331 A
Results Expl Discosity Exp 2 Viscosity Solubility  130-2331 A  130-2332 A  130-2334 A  130-2335 A  130-2335 A  130-2331 B  130-2331 B  130-2331 B  130-2332 B  130-2333 B  172  171  171  176  180-2334 B  170  196  170  196  170  196  170  180  180  180  180  180  180  180
Results Expl Discosity Exp 2 Viscosity Solubility direct with 130-2331 A with 130-2331 A with 130-2334 A with 130-2335 A with 130-2336 A with 188 189 F/G Avied 95 51 130-2332 B 188 181 F/G with 20 2 130-2334 B 170 196 F/G muns uv 130-2335 B 175 173 F/G
Results Expl Discosity Exp 2 Viscosity Solubility  130-2331 A  130-2332 A  130-2334 A  130-2336 A  130-2336 A  130-2331 B  188  189  F/G  130-2333 B  172  171  F/G  mins UY  130-2334 B  170  196  F/G  mins UY

nomberens

I declare that this work was explained to me and that I have understood it

Addition of Iroacu	BA SC WT LTD	TO CIBAT ARCHI	ARRYTOWN IVE DETAIL ROLL STAF	5	0.08/24
	3 monorer.	CONTINUE NO.			
Project No.  We made up 6 polys  Nef M2117		wing the re	tipe be	JDW_	
Acruiamide Adipic Acid Urea Tetralon B 300 ppm Water AZDN 450 ppm	10388 - 49 54.1689 54.1689 18.39 7784.989 8.2359	pH3.5	1.6%		
2 standards	no irgaure				
2 a 3·05 <sub>9</sub>	500 ppm Imacure	- 1000000000000 to 100		# 100 100 100 100 100 100 100 100 100 10	
2 a 12·2g	2000ppm Irgacure		. 12 34 1400 00 004 110 110 110	, t t ti iti ratiques (	
We polymerised their	n as follows:				
Initiators < 129- Additives 3266 3 VAO44-15% 50 KBrO3 0.36% 12 Na2SO3015% 5 Irgacine 0 We gave all tr A hrs residence	50 50 5 12 12 12 5 5 5 500 200 0	12 5 500	129- 3271 50 12 5 20001		
I declare that this work was  ANHOU  I declare that this work was  ANHOU	Mar):	t I have underst	ood it		

TO CIBA TARRYTOWN ACCITION OF MODELLE IND. 37 **ARCHIVE DETAILS** ROLL START END CONTROL No.

P.09/24

IND7

· · · · <u>10</u>	(1120211011017)	1				<u>.                                    </u>
Project No.						
		T- 1-1	to 150 Too	T70 T	80 Tao	
PolyN°	Ind T. To To					
129-3266	Im 30 +1 3				<	- ly
129-3267	1m10 +1/2 3	.				- drg
129-3268	20 +2 4		6 68 87		34 83	7
129-3269	5m40 +1 2	8 13 2		8E S	35 84 4	Dig
129-3270	1m50 0 1		4 42 82 9 55 84	07 18	4 82 /	<del>- 0 7</del> -
1 129-3271	40 +113	80182	4.55 07	10 T 1C	71031 6	= Jug
Results.	<del>米</del>	Residua	l 4cm.			
		i				
Dried Star	yhd .					
<u> </u>	1					
POUNO	EXDI VISCOSITO	1 CXPQ VI	scosity S	D. 1	Zes Acm	
129-3266 A	30		· 26 图	MA T		<u>D</u>
129-3267A	26	25		-/CT 3	552 ppm	<u>500</u>
129-3268 A	27	28	<u> </u>	-/cr/6	39 ppm	The same of the sa
129-3269 A	31	29		7G- (	513ppm	
129-3270A	30	27	F	/G-	5 <u>80</u> ppm	300
129-3271 A	31	28	ŧ	70T (	287 ppm	• • • •
- Dried 201	nins UV	4	,		party among the aggregate and the state of t	<u> </u>
(D) 019	EXPL VISCOSITY	EXD2 V	'somity ?	501	Res Aam.	
POUN°	24 MA/KB		3	F/G	412 ppm	0
DQ-3266B	74 700		3	FIG	38 ppm	500
pq-32678	25 30			E/G	32 ppm	2.60
129-3268B	28 36	Adm 7	5	F/G	35000m	
pg-3269B		18141 - 2 1869 7	5	F/G	48 DDM	٠. (١٥٠)
<u>129-3270B</u>	25	7	4	F/a	33 ppm	_000
- ログローノリース	· 4.1					

1000 N	EXDI ADA	ODIA ICA	72 72 2	FIG	412 ppm	C
nd-3266B	24	MAKRAP	<u> </u>	1.1.4	×	<u> </u>
na-3267B	24	A PART ADATA	23	F/G	38 ppm	500
		THE NAME OF	23	I /CT	32 ppm	2,60
129-3268B	25	- Mary			36000m	ť
p9-32698	28	THE MAN.	25	1 7/G	T	
D9-3270B	77	ACRIPA	25	I F/G	45 ppm	م در الاشت
		Deve -	2/1	F/cT	33 ppm	_000
129-32718	25			1 . / 9		

I declare that this work was done by me	date
I dealers that this work was explained to me and that I have understoo	d it
I declare that this work was explained to me and that I have understoo	date

11-JUN-2003 12	2:29 FROM CIBA SC WT LTD		TO CIBA TARRYTOWN	P.1	0/24
1144	LUX III		CONTROL No.	ROLL START	END
	Amonic monor	Yer			
Project	No.	l			
		· , or 2-40 0004 4	, man and a substitution of the C	p 1 h + (	
IND M	ade up 4 polys	OP B	TU monor	ror	
COLLO	DUDO THE POLYOR	NON	141		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
III Jumi	oug its recopi	<u> </u>	<u> </u>		
				.,	
		<del></del>			
- 1 ·	Acylamide	3610	<u> </u>		
- T	Acric Acid.	160f	$\mathcal{S}$		
	Caustic	1482	7 1	1 24 4 40 100 1000 1000 100 100 100 100	, s y
			77 1		
	urea	73	····· 1		
	Terraton B	12.2	a l	*****	**
	Water	5416	56 L	, to:	Marie 1177
	AZDN	3.05	i / 1		
	ACNA	3.05	9		
	TUYI		2.9		•
		4			
102	pays we added	twer	d of the	jacure	24
and:	the other 2 no	id non	<u> </u>		
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	500000 = 3	·asa 1	MANUE 29	759	
in on	500ppm = 3 tiated them as	DOM	,0000		
in the du	WILL W		. В из. н.	e a real oted pop a comments I a	
		·- 0	1.00	120	7
Inutia	tors + 1129-	129-	1129 - 1	129-	
Ada	litives 3427	3428	3429	<u>3430                                   </u>	
t BHP	3.5	3.5	3.5	3.5	
2.00		7	7	7	` <b> </b>
19 700	03	~	NO I	ETY)	,
1290				<u> </u>	<b>-</b> '
1 1 1 1 mey r	<u>vere given 101</u>	mins old	1990 - 2h	47	
reside	ence.				••
			, upp 1991 - and up 1891		
47-10			,		
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11-JUN-2003 12:29 FROM CIBA SC WT LTD	TO CIBA TARRYTOWN P.11/24 ARCHIVE DETAILS
troacure in	CONTROL No. ROLL START END IND?
Anionic monomer	
Project No.	
· · · · · · · · · · · · · · · · · · ·	
- · ·	1
POUN° INDIT TO ITS IT	0 T20 T40 T50 T60
	3 58 69 68
	3 58 70 70
129-3430 12s -1 32 4	4   59   70     70
We dried the pays as tak	DWS:
(A) 2000 duried in class neod	(no UV) d + UV for first 20 mins
(2) 2000 aried in alass hoor	1 + IN or over 20 mins
(b) 2cc what an growned	a . av. to the solution
000.1147	
Residen	
	- 10 1 D - 1 A - 10
THOUND EXPLANA	S SOI KOS ACM
129-3427A 40 40	F/G   168
129-3427B 39 40	F/g 56
129-3428A 40 40	F/G 122
1129-3428B 39 39	F/G 43
129-3429A 42	F/q 386
129-3429B   37   31	F/q  27
129-3430A 37 36	F/9 96
179-2430B 39 39	F/9 22
The same of the sa	
	1. Marie Agent C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
The second secon	
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u.	11-JUN-2003 12:30 FROM CI	BA SC WT LTD	•••••	то сп		E DETAILS	P.12/24
∴ .	· <u>P182</u>			CONTR	IOL No.	ROLL START	END IND
. <b>'</b>	Project No.		į				
	. We made up 4	POLLIS OF	P182 (	 (SEP 199	cipe bel	اهه	** **** * *** *** *** *** ***
َ مِنْ اِنْ مِنْ مِنْ اِنْ	We made up 4 ref m2	201					
ه=۲۹۰. ه کینها							
	Acrylamide	es no strandentes minur ( ) ; sincherique	5175		_2pau	is had	
	Adupic Acid miss		207g	. ,	_500pp	m 1249	⊃Y
:• :		30ppm	12219		000 000 E 1000 000 000 000 000 000 000 0	= 3.05	9
	Water		50440	,			
,	AZON	500pm	6.1.9				
	ACVA	100 ppm 1	1.229		· New President Int. In o		
dia.	Initiatore 12	0 -   130	) <u> </u>	26	1 120		
				30- <u></u> 2457	2458	Tho	1 had_
	KBrO <sub>3</sub>	4	+	<del>上。(</del>	4	1	acaas
	N02SO3	8	8	8	8	+2	<b>\</b> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	1 T2959	0	0  -	500	300	) res	dence
						d harrison planetur de Miller de se	
	Pruno Tod	TO 75 T10	T20 T30 T41	0 T50 T60	170 T80 T9	O TIOO TIPO T	115 T120 T125
	130-2455 25s		6 9 13			85 86 8	
	130-2456 6m28	3 +2 2 3	5 7 11	14 19	25 32 42		
	130-2457 FTP		6 7 9		18 23 28 27 35 4	36 41	73 86
	1130-2458 16m59	1 +2 3 4	5   8   11	15 22	12/135/7	6 76 85 8	5  85   -
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					4 And Adul And may ( ) App.		1 Mario N . Copyre 500 50 50 1 1 4
		I			essential and the control of the con		······································
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11-JUN-2003		FROM	CIBA SC WT LTD	- <b>-</b> !	TO		TARRYTO		
Ircac	ure.	In_			CONTROL	No.	ROLL	START	END
Project No.	<u>P18</u>	2.							

P.13/24

IND?

	•	Res		<u>lti</u>
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- KCCCCC						
PolyNumber	EXD I VIS	Exp2 Vis	$\mathcal{D}I$	Ras Acm	LSLC	
100		]			SOCH	XIINKEC
130-2455 A	183	187	G	837		<u> </u>
	,	and Anna and an	,		<u> </u>	0
a adole Mari - H						9
130-2455 B	. Apriliado e 1864 1860 .	; m. m. det een 1 1			<u> </u>	
	188	191	<b>(</b> 3.	784	<u> </u>	0
		10.11			0	
130-2456 A	198	194	G	700	Q	00
	Marke man. 1	,		789	5 3	$\bigcirc$
				<u> </u>	0	
130-2456 B			2	569	<u> </u>	0
The second secon	187	189	G.		2	0
A	10-1	177	G	813	0	0 *
130-2457 A	181	177	G		2	0
				t ngan ganga nan ma ma		Ŏ.
10D 21157 B	·			78	0	0
130-2457 B	177	181	G		0	0
D C . And a confidence district to the Confidence district distric					0	0
130-2458 A	189	180.	a	710	2	0
100 4 100 11	- +O I				2	T 0
					12	0
130-2458 B				85.		0 e¥
***	176	184	G		- O	F5
is that a to disseptional let a to a to a total del spirit deposits between radia in			10001111		12	1 2
	as done by me	ptoten ma	122CARD			

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- 11 500	A SC WT LTD Fage INO. 101	то	CIBA TA			F	2.15/24
Trademe Tu	_	CONTROL			START	END	IND?
<u>132X</u>	<del>_</del>						
Project No.							
Rosults	=			g gan timbro popupus s d	60 1 2 7 260 600 100 200 200 1		
Od Number	Captic	Exp 21/6/	501	000	ACM	<u>^</u>	
Fdy Number	EXDIVIZ	Exp3/13/		NU	1	<u></u>	« • « » »
DY-345/A	144	·-·\	<u> </u>	کِ <u>۔۔۔</u>	32		100 00 10 H 7
129-3457B		_NO_/	$\frac{\mathbf{G}}{\mathbf{G}}$	الما ا	<u> </u>		
129-3458A	143	duplicates	9		6		
129-3458B	. 130	/ \	<u>G</u>	1	<b>b</b>	<b>-</b>	
129-3459A	137	/	C <sub>t</sub>	. 3	S)		
129-3459B	123	/ \	<u> </u>		<del>\</del>		
129-3460A	14	/	9	12	1		ppi gyr newygy, eronna karry waa sile da'r all tille (164 a e 1660). 194
129-34603	126		1 9	1 10	<u> </u>		
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11-JUN-2003	12:31	FROM	CIBA SC WT LTD
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TO CIBA TARRYTOWN P.16/24 **ARCHIVE DETAILS** ROLL START END IND? CONTROL No.

<u></u> <u>.</u>	BONSAI - The			Cgamos
	<u>or</u>	Powder	- Producto	
apeure	2959 Opt	mostion	FED - See	FPR NAmbook 76/191-193
<u>د رددرا</u>	to from the	. Fed ove	shown belo	ous, viscosty, solubility, and residual
بالصيمنطة	عرب صحد بدباه	besten.	e e e esperantamente de	
		<del></del>		
R Nc	Viscoeity.	: Solubility	los Acm	
-353	21	F/G	695	i
354	18		447	Viscosity specification
355	21		238	Organopol 71 (CLZ)
356	18	<u> </u>	216	14-18-21 P
357	22		940	
358	18		472	
359	22	:	40%	
_360	18		274	
361	21		354	
362	17		197	
363	19		158	
364	17		106	
365	21		346	1
	18		260 `	
367	20		172	and study to the study of the study grows and all the study control of the study of
368	17		105	
369	9		243	7:
370	71		220	Centre Points
-	20		267	
371			333	)
372	20	_ <del></del>		M 4000B114 Mm 1 11000000 11700 000 01700 000 01700 000 0

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V HOLES	date

11-JUN-2003 12:32 FROM CIBA SC WT LTD Page NO. 15	TO CIBA TARRYTOWN  ARCHIVE DETAILS			P.17/		
	CONTROL	No. ROLL	START	END	INDS	
tura No. Coof						
Project No. 2006						
Inclusion of D1173			n	<u> </u>	•••	
A +1 03 \ 03	= .cocc (		act T	; ; ;		
As the use of D1173 has proved	auces and			۔۔۔۔۔ مہار	·······	
it was decided to use it on Bon	المارد به المداددة المداددة		ر معرف			
monomer mexture. The dorocure was	e <del>cces</del> a.	anthough a	B.U	172	<b>-</b> C	
during degassing The standard cont			(C). (D) 11			
The following polymers were united		H				
Zetag 12	31 956 866 966 6 696 9	le todiftenfibret stammenen umpete prochtetieringen mebbere				
FPR No. Darocuse 1173						
·		s odded use	_			
130-2441 42 Lanker	_up_+ &e	ated				
130 - 2012		I do a hard made her provided and the contraction of the contraction o	HOLDER OF F			
	•	hard man a cor & administrated the page of	o-amen in 1912 i 4944 l		•	
Polymerassian Information	, presidente i de de 2			***************************************		
	1.	l. 1	***************************************			
FPRNO TO TIO TO THO TWO	w. tind	tools				
130-2440 3 8 15 45 85 8	5 10sec.	70mm		5 K(3	•	
2441 2 6 12 41 86 8		Somen		<u>\\ \'</u>	ر <del>ح 2</del> 0	
2442 2 6 3 41 53 8	1000	80 min	+ 1 ***** D1**1***			
1		11 11 11 11 11 11 11 11 11 11 11 11 11				
stach of the above recoved a ?	D. mm. D	; purce tur	2_د_مہ	hr a	いぶるく	
residence at 85°C. The gels were u	source y	<u>p. umnegli</u>	ally a	pter.	_ove	
residence Each war dried with with	ut UV 3	treatment	(20 mg	.رى.	The	
labelled "A" were guen 20 muns un tre	atment				••	
) <del>30 2440</del>		6 +6 M HHH			* *	
10 130-2040 440 ZULOA		a desiminate med bene				
2441 709 2441 A 25	Z `		,,,			
21142 662 21142 A 23		***************************************				
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## Page No. 16

ARCHIVE DETAILS									
		END	IND?						
	1 1		}						
		ROLL START							

<b>Project</b>	No.	3006
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and the state of the section of the	eminimization appears and the substitution of a building substitution of the substitut	the state of the s	من ا
Atthough <	coppus had	hat been	achieved the low levels of
North a	& Signatura	nt reduction	as was seeken
reneated using	a higher	<u>leris</u> o	T_DIVO (100 11004.).
M333 (292~	ok whoted	due to que	at shakage
_	71173		( 1875) - 1875 -
129-3439	<u>0</u>	Intestor.	levels of 12:5 KBrog: Nau803
3440	<u> </u>	100 Jahr	ppm UADHy were used
344	<u> </u>	nation to the state of the stat	The second secon
3442	500		
	prime Met manuscript o 1 es tradécia Disper de l	· · · · · · · · · · · · · · · · · · ·	
Polymerasa	tion Info	rication.	
FOR NO T	6 T.O T.	<u>a Ton Tsa</u>	To Track Lind Locky
129-3439	0 4 1	28 46	84 85 155 50
3440	2 4 1	1 1	1 1 1 i .
3444	لا لـــــــــــــــــــــــــــــــــــ	29 49	84 205 50
3442	0 1 1 5	5 4 22	
	1 III NOISIMPEN	en en 1901   als 111000 desse especiales (11000 algorismo especiales)	720 mms 'B'
Each of ab	ae uere	in treate	d + dried as standards A'
FPR No	<u>Visc</u>	Sci	Res: Acmi (Am)
129 - 3139 A	29	<u> </u>	479
3139 B	26	<u> </u>	444
3440 A	29	_ q	57+7
- 3440 B	24	<u> </u>	110
3441 A	28	<u> </u>	509
3441 B	25	<u> </u>	7.5
. 3442 A	31	<u> </u>	587.
34428	25	<u> </u>	42

I declare that this work was done by me

apalex

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The intensity of the confiltered light was adjusted using the variable transformer to give a similar intensity to the filtered light Glass also reduces intensity.
100g of hubricated gel chip was spread anto a duner plata and placed under the UV light ather with a without a filter Samples of wet get were removed after 10,20,30 and 40 minutes - the results are as follows:
FPR No 129-3480 was used
Res Acm (ppm)
129- Filtered c) Va Unfutered D' Visc
3580 C/O1 512 96
7
3 451 64
4 321
Standard 129-3480 635 ppm residual acrylanuda
Zavada IZI-Sittas OS Khilo San Assessing
All above samples were dry weight corrected to 95%.
I A let land last tent went very collow
The get which had unfiltered light treatment went very yellow
and stuck together even after 10 minutes. Viscosity of the
two samples taken after homens was also measured.
The second of the temple -
FPRNO 129-3480CH was dried and put on to tumble -
after 3hours the solubility was poor with many x-linked
- lumps
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Standard 292 was manufactured	contacou	vg.	<u>۱۸۵</u>	area al.	fr H	ري ري
L SON SET FOUND				_		
stability of D1173 and Iza59 and f	] auteur	atioiti	.O	مروست	₩	monom
TO LANG MICING LIVE FILLS						
					· · · · · · · · · · · · · · · · · · ·	
the following leads of Iza D1123 - I	2959 WX	re	177 B/G			· · · · <del>· ·</del>
SC-013 1:080M					na ny nyempana da s	· - · · · · · · · · · · · · · · · · · ·
0.300 500 1000 200	- SCCCC	r- bbic	<u> </u>			
771 0/163 0/926	5	<b>)</b> ,, <b></b>			40'	. p. var. 100011-0-110
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Efully degard conditions.		,				
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Anonics were also assessed MIOII	was m	oury L	acti	المحتنة	حرم	otion
the same last of photomitiators us	ed rega	دی بلاس	me - c	жр 1. с. — 12	00kk	mer
for anjour products 15 less wan car			20\c	الاعطان المالية		*, - warm.
may be more prone to automutation	C	60	۔ــ ام ما		(2L	MLIN_1
May be more prove to automutation  None of the above polymerised	after	- A	(r) E.			د عود د
although the 2000 ppm level was very	formy			1 6	وي مد	مدر ح
evident after 50 muno. The bubbles.	5vere	حييح	4-1-2	. · · · · · · · · · · · · · · · · · · ·	. —	
fair comparison						
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## Bowre- Treatment of Dry Powder Chip

The following polymers samples were treated with UV light for. twenty number. It was hoped that this treatment would reduce residual acrylamide and be viable for use on the Production Plant as a post treatment. The experiments coursed out one shown in the to table below ...

FPP. Number	Treatment
130-2373 1	Get thep, no we during drying 20 mms my when dry -
2373 AT	Bucker, 20 mus UV when dry.
7373 BI	Powder 20 at during thying, 20 mins UV when they.
2.3.73 A	Standard.
2373 B	20 minute: UV during dryung.

All of the above contained Oppm Irganie 2959

The residual adjourned results are shown below.

FPR No	Residual Acrylanide
130 - 2373 I.	877
2373 AI	909
2373 BI	426
2373 A	851
2373 B	452

Comparing A and AI - the former having had no uv residence the latter having received 20 mins when dry - both residual results are a geopping. B and BI when compared give approx. 2,50 ppm residual acrylamide.

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## Bonson For ISSI Cotimenation FED

Having thre some initial importingation work using the sphoto initiator Ingacure 2959 + (shown below) and found it to be successful

un reducing free acrylanude from a garpon to 30ppm, then it was decided to design an optimisation FED. Thus FED was designed to investigate the effects of IZ959 dose, in light dose, timelof in treatment and mans of get chip in the glass head.

-TJ	ie fallewing	shows the	experime	utal de	pian.	· · · · · · · · · · · · · · · · · · ·	7
j	I2959 (ppm)	Intensity	-Time (mins)	Manla)	5 6	FPR No.	
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3 !	500		10	\$C 0	+ -	354.	
<del>'</del> + :	100	5	. 10	200	+ +	355	}
2		5	10	200	- +	356	
2:	<u>.1</u> 00	<b>)</b>	10	400	· - · + · · ·	351	
4	_ 5 <del>00</del>	<u>1</u>	ו מו	400	+ +	358	ŀ
3.:	100	5	10	400	+ -	359	; ;
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غ 3	5co	5	5v	200		364	
.3	100	1	50	400	+	. 34.5	, ; ;
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2	100	5	5 <u>e</u>	. 40°°	- +		
4_	500	5	<u>50</u>	4.00	+ +	37.8	ļ

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